

GRAPHIC EQUALIZER/  
AMPLIFIER

EGALISEUR GRAPHIQUE/  
AMPLIFICATEUR

# Original **OWNER'S MANUAL** **MODE D'EMPLOI**

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prendre soin de lire ce manuel.

Vielen Dank für den Kauf dieses PIONEER Produkts. Diese Bedienungsanleitung vor der Inbetriebnahme sorgfältig durchlesen.

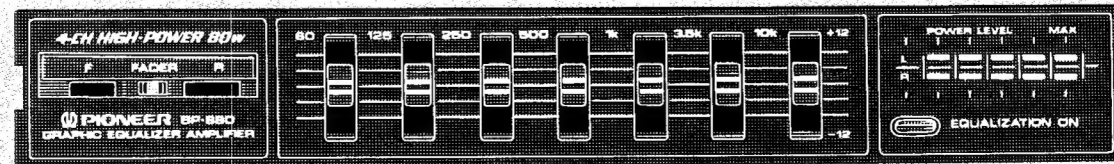
Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

Vi tackar dig för att du valt denna PIONEER-produkt. Läs först igenom denna bruksanvisning innan apparaten tas i bruk.

Takk for kjøpet av dette PIONEER-produktet. Les denne bruksanvisningen grundig før du tar apparatet i bruk.

Dank U zeer voor de aanschaf van dit PIONEER-produkt. Lees deze gebruiksaanwijzing goed door, voordat het toestel in gebruik genomen wordt.

Grazie per aver acquistato questo prodotto PIONEER. Leggere attentamente queste istruzioni prima di usare questa unità.



BP-880

 **PIONEER®**

BP-880

# Features

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## **A Maximum Output of 20W × 4 Channel High Power (BP-880)**

Sound with power to spare is provided by 20W × 4 channel high power. A BPTL circuit ensures low distortion as well as compensation for frequency characteristics.

## **Either 4-speaker system or 2-speaker high-power system can be selected. (BP-650)**

When using the 4-speaker system, front and rear volume can be adjusted with the fader control to produce concert hall presence. Also, the BPTL method gives powerful force to the 25W × 2 output of the 2-speaker high-power system.

## **7 Band Level Control**

Level can be adjusted at each of the following frequencies: 60Hz, 125Hz, 250Hz, 500Hz, 1kHz, 3.5kHz and 10kHz to obtain high quality sound not possible with an ordinary tone control. Thus, you can adjust the system output to match your car's acoustic characteristics.

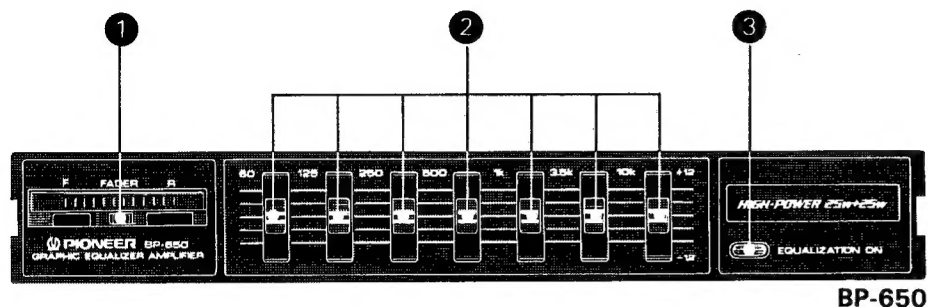
## **Built-In Fader Control**

The volume of the front and rear speakers can be adjusted to suit the seating conditions in the vehicle.

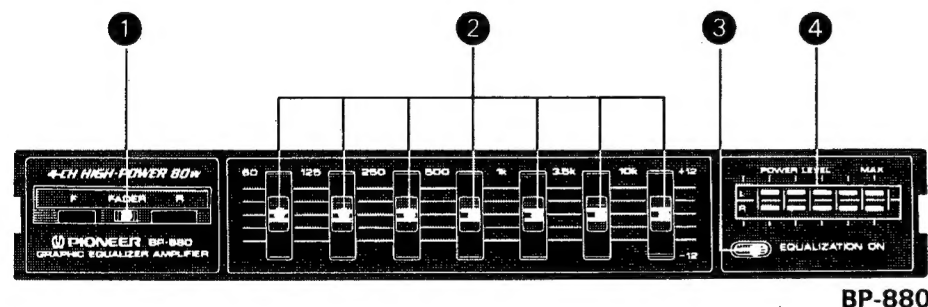
## **Level Indicator (BP-880)**

5-point LED level indicator displays output levels of the left and right channels.

# Controls and their use



BP-650



BP-880

## ① Fader Control

Adjusts the sound balance between the front and rear speakers when the unit is being used in a 4-speaker system. As the control is moved to the left, the rear speakers are faded out until the front speakers are operating alone; as the control is moved to the right, the front speakers are faded out until the rear speakers are operating alone.

### Important Note (BP-880)

- When listening to a 2-speaker system, position this lever at dead center.

## ② Equalizer Control

Slides up and down to allow adjustment to suit both the music and individual tastes. Pressing the equalization switch causes each indicator to illuminate.

## ③ Equalization Switch

Press to activate the equalizer control function and illuminate the indicator on the equalizer control lever.

## ④ Level Indicator (BP-880)

Green and red indicators illuminate corresponding to the left/right output levels.

- If your car stereo has a fader control, set it to the center position.
- Changes in low pitched sounds may not be discernible even when the 60Hz frequency level is adjusted if the program source does not include components in the 60Hz vicinity or if the small diameter speakers are used.

# Connecting the units

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- Before making final connections, make temporary connections then operate the unit to check for any connecting cord problems.
- Be sure to connect only a single component as shown in the connection diagram. If two components are connected, internal circuitry may be damaged or an accident may occur.
- Be aware that connection is different between 2-speaker system and 4-speaker system. Failure to follow the wiring diagram may cause considerable loss of power even when fader control is at the center position. (BP-650)
- A special BPTL circuit is used to be sure that you do not connect the speakers directly to ground nor join the left and right speaker (–) leads.
- For detailed information concerning connections between different components and this unit consult their respective owner's manuals and follow those recommendations precisely.
- Wire all connecting cords so that they stay well clear of high-temperature areas such as the heater exhaust port.
- Be sure to properly connect the color-coded leads. Failure to do so can cause malfunctions.

## Input Selector

Be sure to set the input selector before wiring. (Fig. 1)

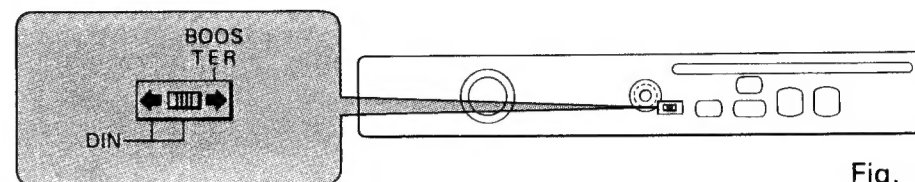


Fig. 1

**DIN:** When connecting the unit to a car stereo with DIN cord.  
There are two DIN positions: set the input selector to either of them.

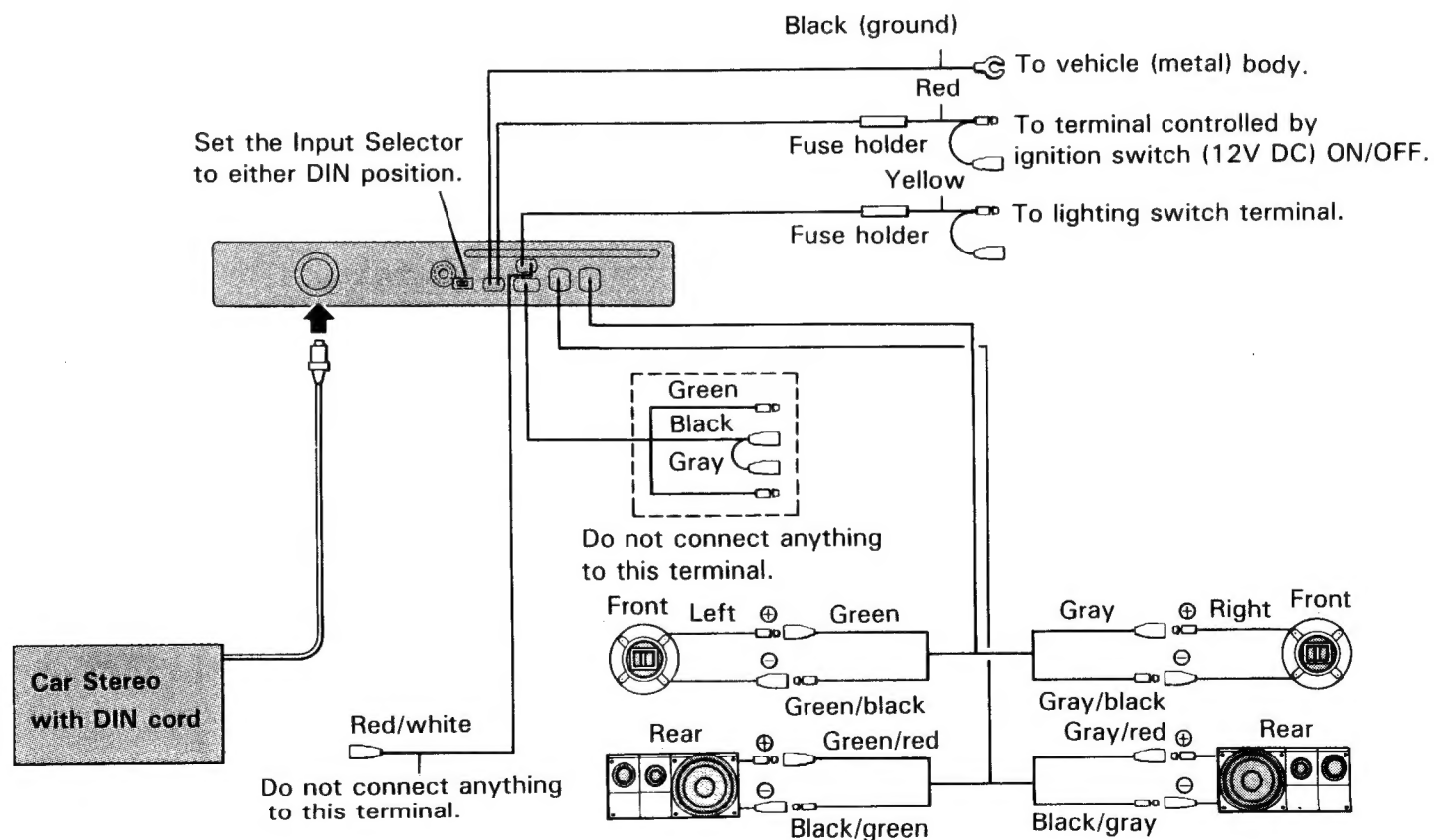
**BOOSTER:** When connecting the unit to a regular car stereo.

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## BP-880, BP-650 (4-Speaker System)

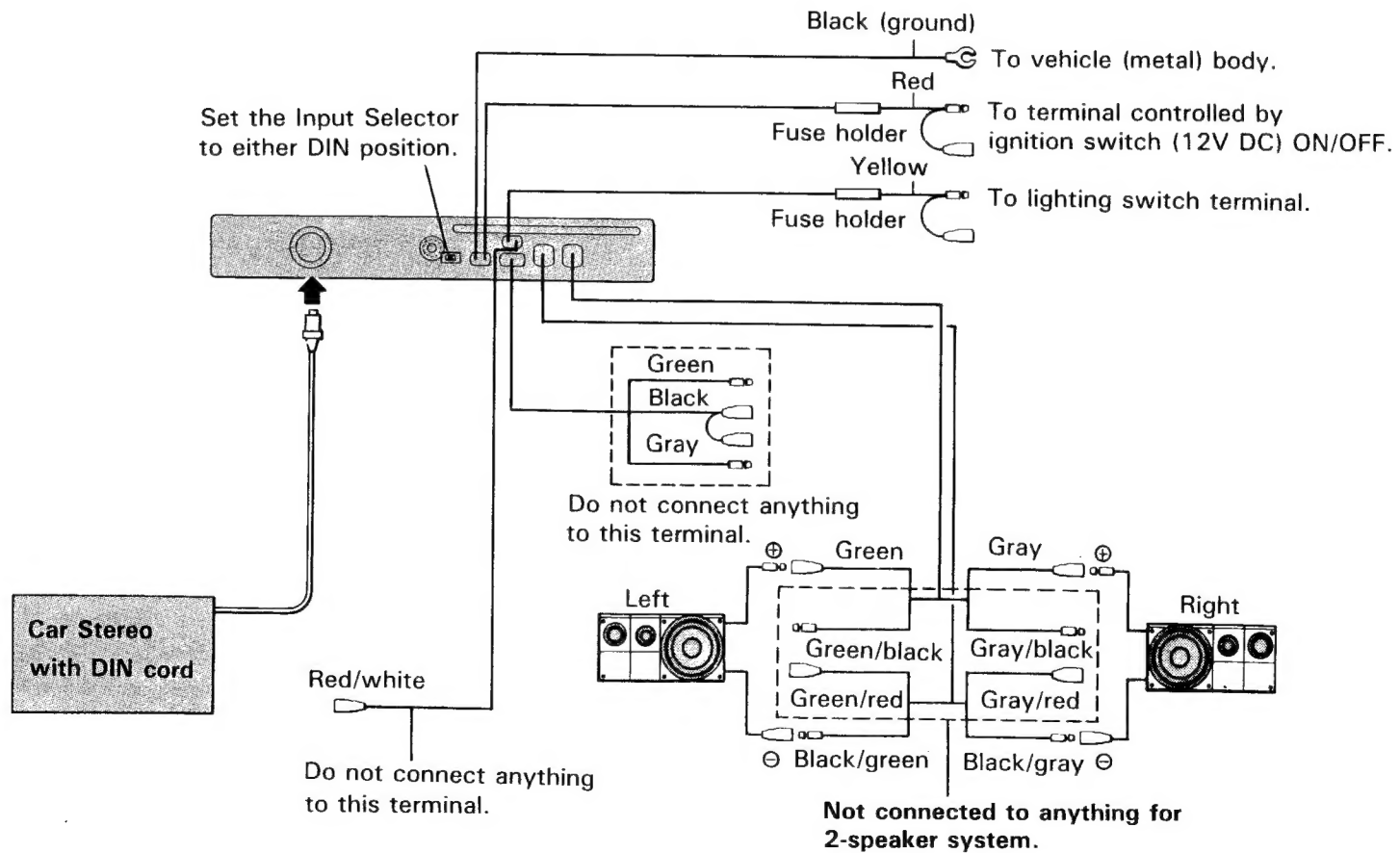
### When Combined with a Car Stereo with DIN cord

- When using the BP-880 in a 2-speaker system, use either the front speaker cords or the rear speaker cords for connection as appropriate.



## BP-650 (2-Speaker System)

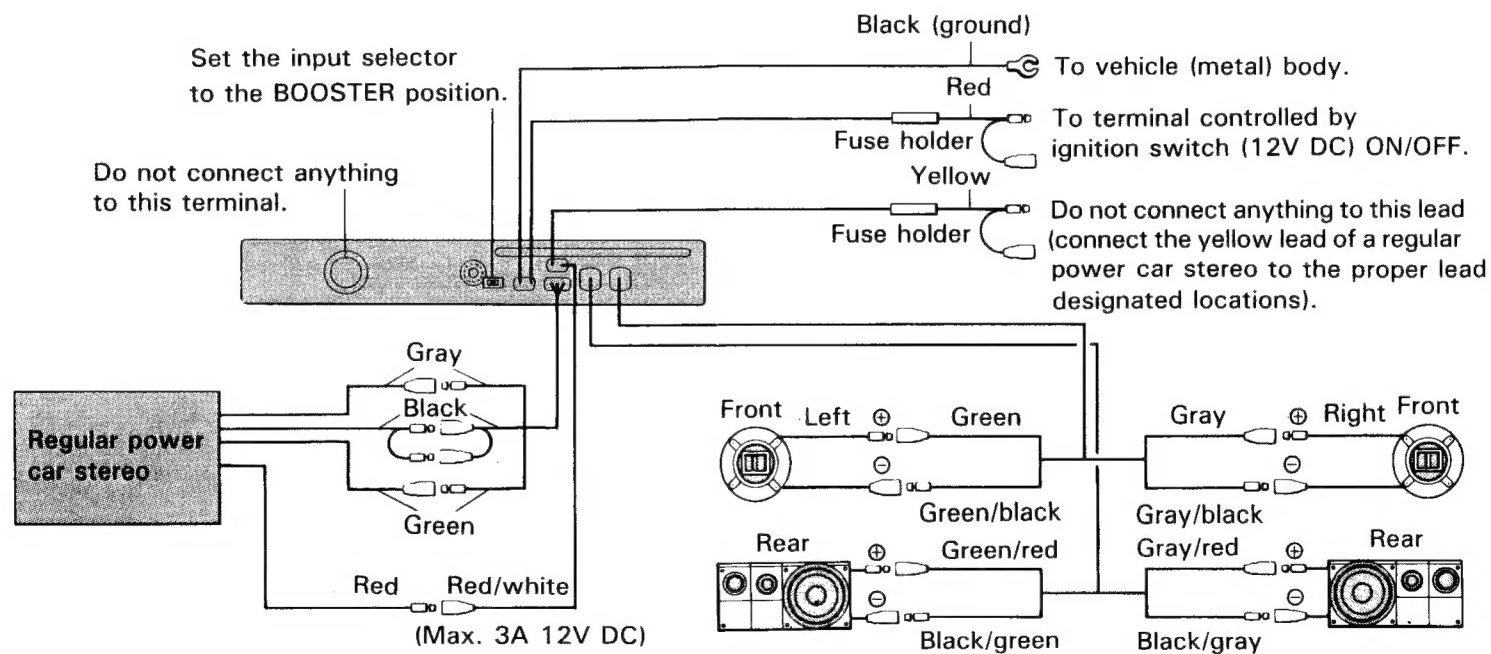
When Combined with a Car Stereo with DIN  
cord



# BP-880, BP-650 (4-Speaker System)

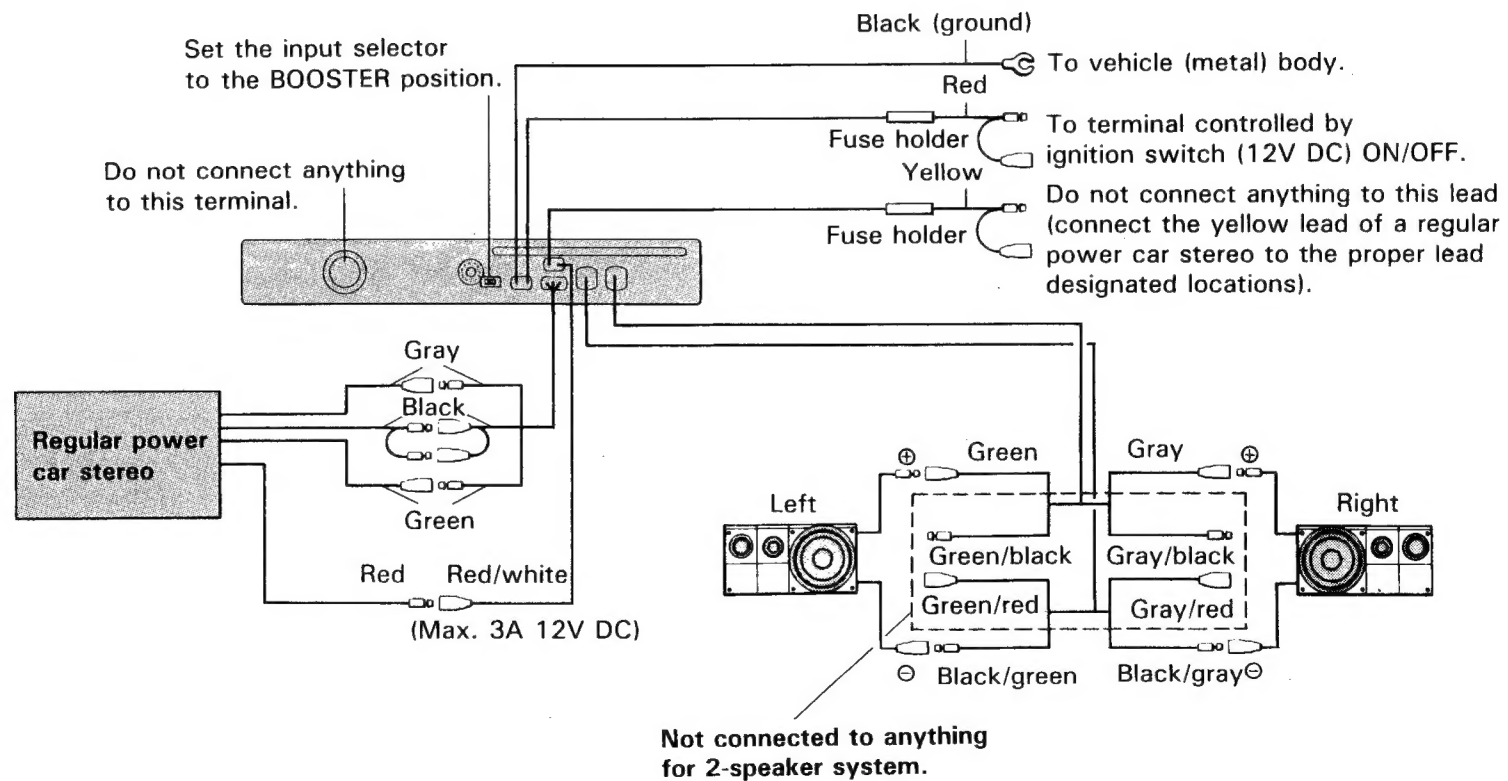
## When Combined with a Regular Car Stereo

- When using the BP-880 in a 2-speaker system, use either the front speaker cords or the rear speaker cords for connection as appropriate.



## BP-650 (2-Speaker System)

### When Combined with a Regular Car Stereo





# Installation

- Be sure to use the parts supplied and to install the unit securely. If parts other than those supplied (specified) are used, they may loosen or damage internal parts.
- Be sure to install the unit in places where the driver is not bothered and where there is no danger of passengers being injured in case of sudden stops.
- Be sure to consult your dealer before making any holes in the car.
- Make sure to take off the (–) side connector on the car battery to prevent short circuits.  
When you finish the installation, be sure to make one more check to be sure everything is done correctly. Reinstall all car parts that were removed. Reconnect the negative battery cable.

## Installation Cautions

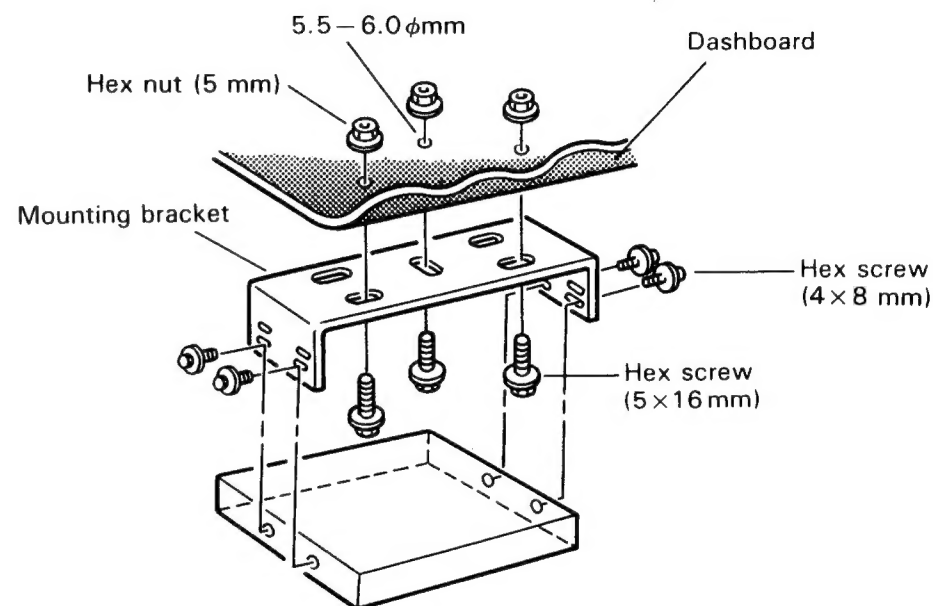
This unit features a built-in high-power amplifier, so when installed in a stacked configuration with a separately sold car stereo, be sure to always position this unit on the top. When this unit is installed below a car stereo, the heat generated can cause damage to cassette tapes.

## Example Installation

Car Stereo
<b>NOT RECOMMENDED</b>
This Unit

This Unit
<b>RECOMMENDED</b>
Car Stereo

## Install under the Dashboard



# Precautions

- Set air conditioning or heating for suitable temperature because there may be extreme changes in temperature during summer or winter.
- Use this function when driving if outside noise is too loud.
- Enough care must be taken against battery overdischarge caused by long operation of the set at a high sound level when the engine is not running or is idling.
- Replace fuses only with the types stipulated on the fuse holder.
- Dust the heat sinks occasionally so that they will not become clogged.

## In case of trouble

When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

# Specifications

## BP-880

Power source	14.4V DC (10.8 — 15.6V allowable)
Grounding system	Negative type
Max. current consumption	7A
Dimensions	
(chassis size)	178(W) × 25(H) × 150(D) mm
(overall dimensions)	178(W) × 25(H) × 163(D) mm
Weight	1.0kg
Maximum power output	20W × 4 (EIAJ)
Continuous power output	10W × 4 (1% dist. at 1kHz)
Load impedance	4Ω (4 — 8Ω allowable)
Frequency response	25 — 30,000Hz (±3dB)
Signal-to-noise ratio	85dB (IEC-A network, at 1W)
Distortion	0.5% (at 1.5W, 1kHz)
Input level	DIN: 70mV/20kΩ BOOSTER: 3V/24Ω
Equalization frequency	60Hz, 125Hz, 250Hz, 500Hz, 1kHz, 3.5kHz, 10kHz
Equalization range	±12dB

## Note:

Specifications and the design are subject to possible modification without notice due to improvements.

## BP-650

Power source .....	14.4V DC (10.8 — 15.6V allowable)
Grounding system .....	Negative type
Max. current consumption .....	4A
Dimensions	
(chassis size) .....	178(W) × 25(H) × 135(D) mm
(overall dimensions) .....	178(W) × 25(H) × 148(D) mm
Weight .....	0.9kg
Maximum power output .....	25W × 2 (EIAJ)
Continuous power output .....	16W × 2 (1% dist. at 1kHz)
Load impedance .....	4Ω (4 — 8Ω allowable)
Frequency response .....	20 — 30,000Hz (±3dB)
Signal-to-noise ratio .....	85dB (IEC-A network, at 1W)
Distortion .....	0.3% (at 1.5W, 1kHz)
Input level .....	DIN: 70mV/20kΩ BOOSTER: 3V/24Ω
Equalization frequency .....	60Hz, 125Hz, 250Hz, 500Hz, 1kHz, 3.5kHz, 10kHz
Equalization range .....	±12dB

### Note:

Specifications and the design are subject to possible modification without notice due to improvements.

# Caractéristiques

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## **Puissance maximum élevée de 20 W × 4 canaux (BP-880)**

Le son avec une puissance élevée est fourni par 20 W × 4 canaux. Le circuit BPTL assure un niveau bas de distorsion aussi bien qu'une compensation pour les caractéristiques de fréquence.

## **Il est possible de sélectionner le système de haute puissance soit à 2 haut-parleurs, soit à 4 haut-parleurs (BP-650)**

Lorsque l'on utilise le système à 4 haut-parleurs, les volumes avant et arrière peuvent être réglés au moyen de la commande de l'atténuateur pour produire un effet de salle de concert. D'autre part la méthode BPTL offre une puissance suffisante à la sortie 25W × 2 du système de haute puissance à 2 haut-parleurs.

## **Commande de niveau sur 7 bandes**

Le niveau peut être ajusté pour chacune des fréquences suivantes: 60 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 3,5 kHz et 10 kHz, cela afin d'obtenir une grande qualité sonore impossible à atteindre avec une commande de tonalité ordinaire. Vous pouvez ainsi ajuster la sortie du système afin de s'harmoniser avec les caractéristiques acoustiques de votre véhicule.

## **Commande d'atténuation incorporée**

Le volume des haut-parleurs avant et arrière peut être réglé pour s'adapter aux conditions de position des sièges du véhicule.

## **Indicateur de niveau (BP-880)**

L'indicateur de niveau LED à 5 points affiche les niveaux de sortie des canaux de gauche et de droite.